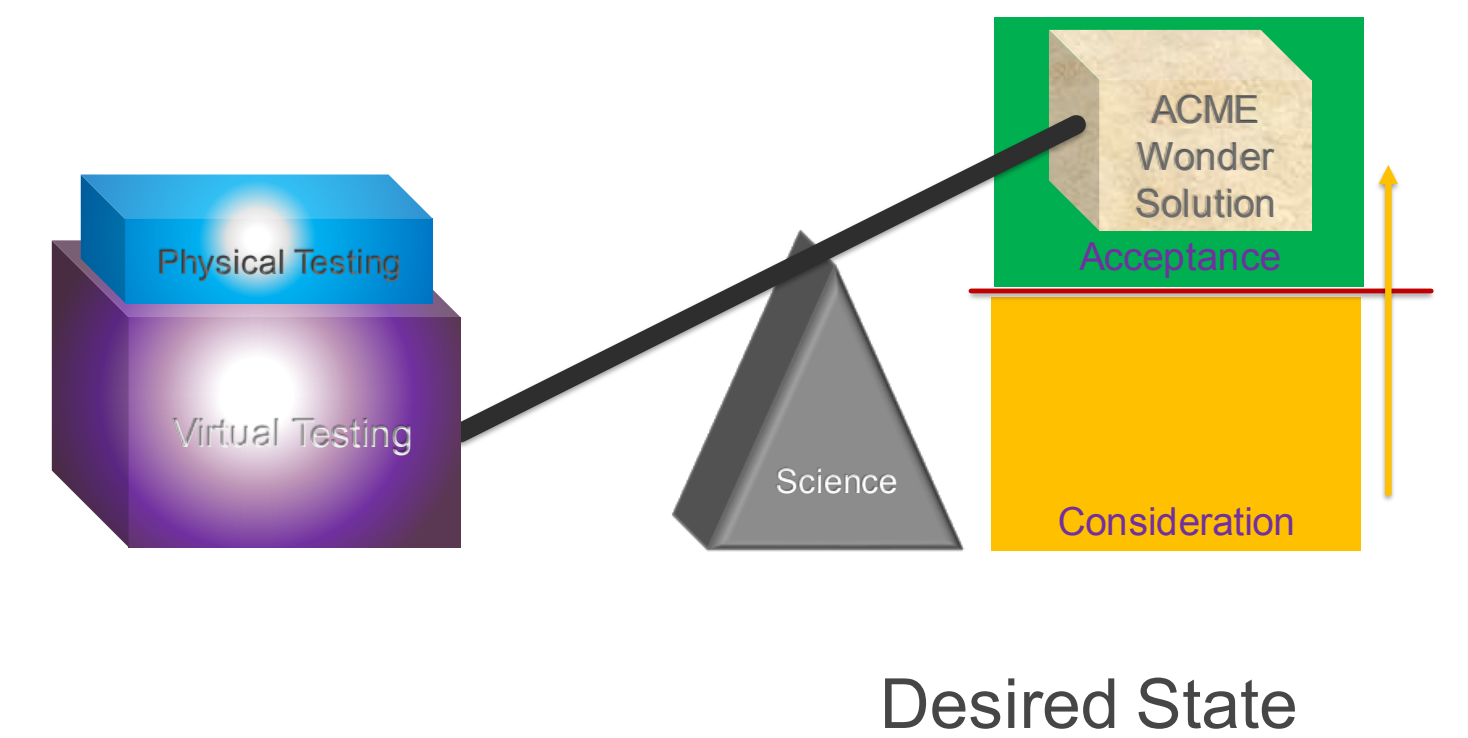
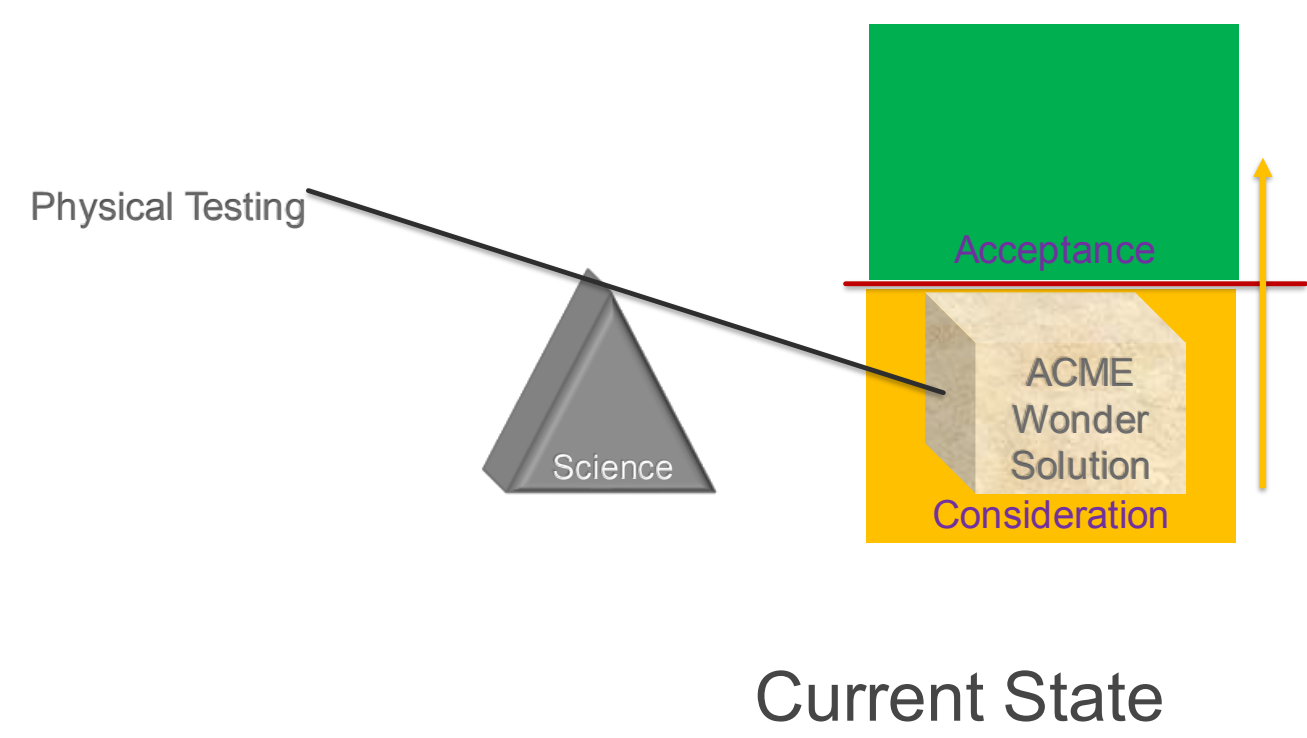


Virtual Verification Validation & Visualization Institute



Pervasive Technologies Institute



Leadership

- Computational Expertise
- Science Gateways
- Scientific Research
- HPC Resource Access



V4I EcoSystem

- 18 Universities
- 13 Government Departments & Agencies
- 67 Industry Partners

Industries

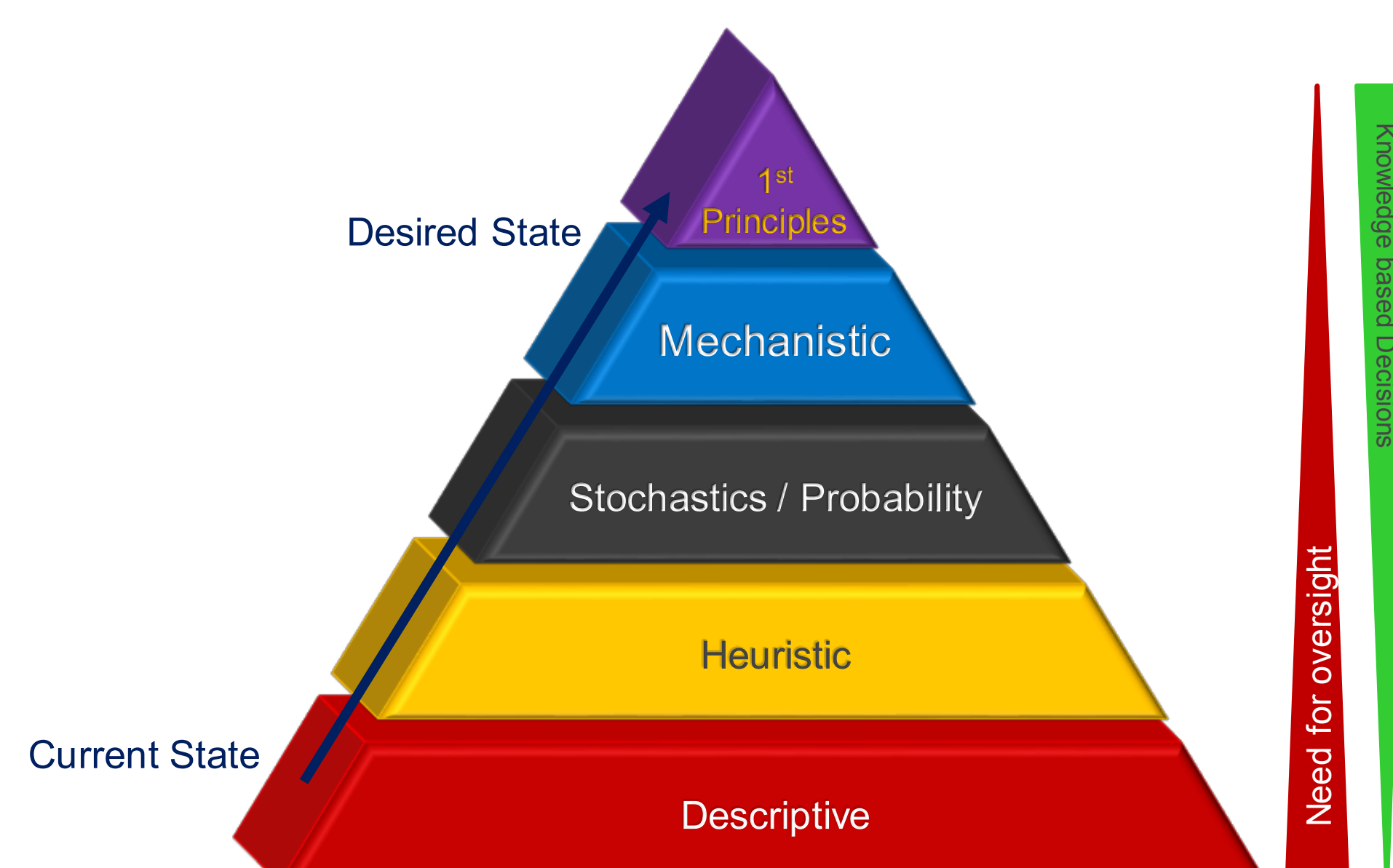
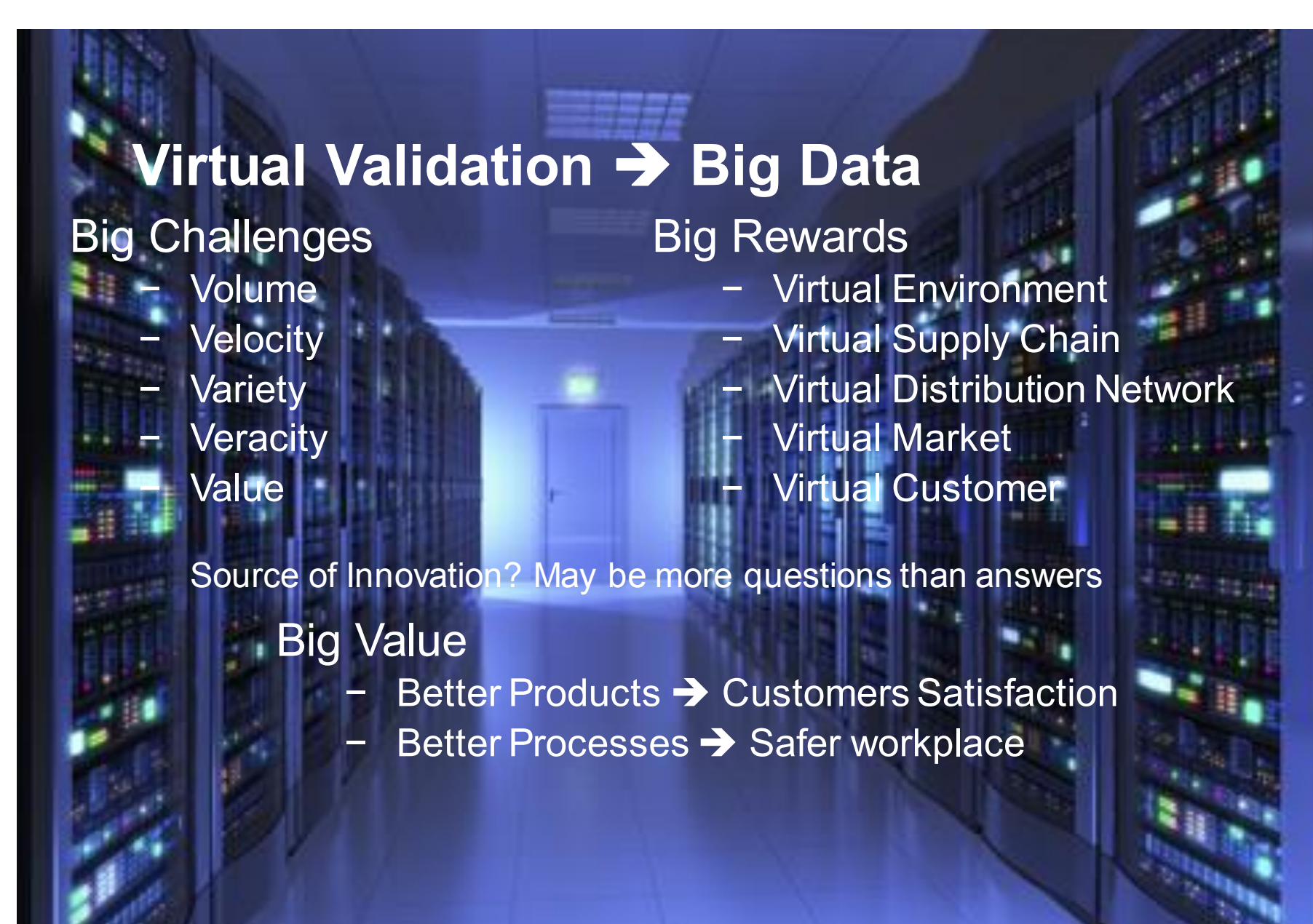
- Defense
- Aerospace
- Automotive
- Life Sciences
- Power Generation
- Shipbuilding
- Oil, Gas, Mining

V4I

- Industry Led
- Indiana Based
- National Impact
- Global Reach

Residual Value – Sustainable Economic Impact

- **Manufacturing Excellence** – Return on Investment, Realized Innovation
- **Safety, Quality, Reliability, Cost** – Better products, processes, safer jobs
- **Education Realization** – Research opportunities, STEM durability
- **Regulatory Efficiency** – Clear decision: impact to public safety & confidence
- **Entrepreneurial Networks** – Opportunities, Agility, Markets, Job creation
- **Community** – Stability, Continuity



Industry Value – Return on Investment

- Defense Aerospace
 - 50% Research and Development cost savings
 - 25% Research and Development time reduction
- Life Sciences: Medical Devices
 - 50% Research and Development cost savings
 - 50% Research and Development time reduction
- Improved Product Quality, Safety, Reliability
 - Higher customer Satisfaction
 - Sustainable Product Lines and Lifecycles through Innovation
- Improved Manufacturing Process Safety, Reliability, Efficiency
 - Higher return on investment